Docket No. 279414US0PCT

# MAIL STOP PCT

LAPS RSC'd PCT/PTO 10 FEB 2008 CT

#### ATENT AND TRADEMARK OFFICE IN THE UNITED

IN RE APPLICATION OF: Toru OKAYAMA, et al.

SERIAL NO:

10/553.982

GAU:

FILED:

October 20, 2005

EXAMINER:

FOR:

FIVE-MEMBERED HETEROCYCLIC DERIVATIVE

## INFORMATION DISCLOSURE STATEMENT UNDER 37 CFR 1.97

COMMISSIONER FOR PATENTS ALEXANDRIA, VIRGINIA 22313

SIR:

Applicant(s) wish to disclose the following information.

#### REFERENCES

- The applicant(s) wish to make of record the references listed on the attached form PTO-1449. Copies of the listed references are attached, where required, as are either statements of relevancy or any readily available English translations of pertinent portions of any non-English language references.
- ☐ A check or credit card payment form is attached in the amount required under 37 CFR §1.17(p).

#### RELATED CASES

- Attached is a list of applicant's pending application(s), published application(s) or issued patent(s) which may be related to the present application. In accordance with the waiver of 37 CFR 1.98 dated September 21, 2004, copies of the cited pending applications are not provided. Cited published and/or issued patents, if any, are listed on the attached PTO form 1449.
- A check or credit card payment form is attached in the amount required under 37 CFR §1.17(p).

#### CERTIFICATION

- ☐ Each item of information contained in this information disclosure statement was first cited in any communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of this statement.
- ☐ No item of information contained in this information disclosure statement was cited in a communication from a foreign patent office in a counterpart foreign application or, to the knowledge of the undersigned, having made reasonable inquiry, was known to any individual designated in 37 CFR §1.56(c) more than three months prior to the filing of this statement.

### DEPOSIT ACCOUNT

Please charge any additional fees for the papers being filed herewith and for which no check or credit card payment is enclosed herewith, or credit any overpayment to deposit account number 15-0030. A duplicate copy of this sheet is enclosed.

Respectfully submitted.

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SHEET 1 OF 3

Form PTO 1449 (Modified)		U.S. DEPARTMENT OF COMMERCE			ATTY DOCKET NO. 279414US0PCT	\$	SERIAL	NO.	
		PATENT AND TRADEMARK OFFICE		EMARK OFFICE	279414US0PCT (FRAN	MARK	10/553	982_	
					APPLICANT				
L	LIST OF REFERENCES CITED BY APPLICANT				Toru OKAYAMA, et al.				
					FILING DATE		GROUP		
					October 20, 2005				
				-	U.S. PATENT DOCUMENTS				
EXAMINER DOCUMENT DATE				NAME CLASS SUB F		ILING DATE			
NUMBER DATE		ADAMS et al. (equivalent of WO 95		APPROPRIATE					
		AA	6 306 883	10/23/01	31451 -English abstract only)				
		AB	B 5 462 960 10/31/95 BARTH et al.						
	FOREIGN PATENT DOCUMENTS								
DOCUMENT			DOCUMENT	O DI WITOV		TRANSLATION			
			NUMBER	DATE	I COUNTRY I			NO	
		AC	2586713	12/05/96	JP (equivalent of EP 0 418 845- English only)	abstract			NO
		AD	97 29774	08/21/97	WO (English abstract only)				NO
		AE	01 16132	03/08/01	WO (English abstract only)				NO
		AF	2004 065374	08/05/04	WO (English abstract only)				NO
		AG	2004 099130	11/18/04	WO (English abstract only)				NO
		AH	03/027076	04/03/03	WO (English abstract only)				NO
		Al	96 03388	02/08/96	WO (English abstract only)				NO
		AJ	00 69848	11/23/00	WO (English abstract only)				NO
		AK	2 83373	03/23/90	JP (with English abstract)			NO	
		AL	92 20651	11/26/92	WO (English abstract only)			NO	
		АМ	94 27597	12/08/94	WO (English abstract only)			NO	
		AN	93 14082	07/22/93	WO (English abstract only)			NO	
		AO	03 040110	05/15/03	WO (English abstract only)				NO
		AP	6 73014	03/15/94	JP (with English abstract & equivalent of EP 0 576 357)				NO
		AQ	95 15316	06/08/95	WO (English abstract only) WO (English abstract only)				NO
		AR	98 56377	12/17/98					NO
		AS	1 142 889	10/10/01	EP (English abstract only)				NO
		AT 1 104 758 06/06/01 EP (English abstract only)					NO		
	AV 98 52937 11/26/98 WG		WO (English abstract only) WO (English abstract only) WO (English abstract only)				NO		
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$\vdash$		AX	01 87880	11/22/01	WO (English abstract only)				NO
$\vdash$	AY 98 52940 11/26/98		WO (English abstract only)				NO		
_	_	AZ	99 58523	11/18/99	WO (English abstract only)				NO
		AAA	50 121269	09/23/75	JP (English abstract only & equivalent of 490 771)	of GB 1			NO
		AAB	03 027370	02/05/91	JP (English abstract only & equivalent of 377 457 –English abstract only)	f EP 0			NO
		AAC	2004 060367	07/22/04	WO (English abstract only)				NO
Ι,	,	AAD	11 193281	07/21/99	JP (English abstract only & equivalent of 21555 -English abstract only)	of WO 99			NO
$\vdash$	/	AAE	00 63294	10/26/00	WO (English abstract only)				NO
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						Add	itional Ref	erences	sheet(s) attached
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Form PTO 1449 (Modified)	U.S. OEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE		ATTY DOCKET NO.	TRADENIA	SERIAL NO.			
(Modified)		PATENT AND INDEMAN OF THE	279414US	0PCT	10/	553,982		
			APPLICANT					
LIST OF	KEFE	RENCES CITED BY APPLICANT	Toru OKAYAMA, et al.					
			FILING DATE		GROUP			
			October 20	, 2005				
			Including Author, Title, Dat					
/K.B./	AAF	Antipatelet Trialists' Collaboration, "Collaborative overview of randomised trials of antiplatelet therapy- I: Prevention of death, myocardial infarction, and stroke by prolonged antiplatelet therapy in various categories of patients", BMJ, vol. 308, pages 81-106 1994						
	AAG	DERRY et al. "Risk of gastrointestina 1183-1187 2000						
	ААН	CATELLA-LAWSON. "Vaccular biology of thrombosis: Platetet-vessel wall interactions and aspirin effects", Neurology, vol. 57, Suppl. 2, pages S5-S7 2001						
	AAI	PAIRET et al. "Measurement of Differential Inhibition of COX-1 and COX-2 and the Pharmacology of Selective Inhibitors, Drugs of Today, vol. 35, no. 4-5, pages 251-265 1999						
	AAJ	TSUJI et al. "Studies on Anti-Inflammatory Agents. IV. Synthesis and Pharmacological Properties of 1,5-Diarylpyrazoles and Related Derivatives", Chem. Pharm. Bull., vol. 45, no. 6, pages 987-995 1997						
	AAK	TANAKA et al. "Antiplatelet Agents Based on Cyclooxygenase Inhibition without Ulcerogenesis. Evaluation and Synthesis of 4,5-Bis(-methoxyphenyl)-2-substituted-thiazoles", J. Med. Chem., vol. 37, pages 1189-1199 1994						
	AAL	MEANWELL et al. "Nonprostanoid Prostacyclin Mimetics. 3. Structural Variations of the Diphenyl Heterocycle Molety", J. Wed. Chem., vol. 35, pages 3498-3512 1992						
	ААМ	1992						
	AAN	1993						
	AAO	MEANWELL et al. "Nonprostanoid P oxazolyl)ethyl]phenoxy]acetic Acid S 1993	ubstituted alpha to the Oxazo	ole Ring", J. Med.	Chem., vol. 36, page			
	AAP	SEILER et al. "24;3:24;4.5-Diphenyl-2-Oxazolyl) Ethyl  Phenoxyl Acetic Acid (BMY 42393): A New, Structurally-Novel Prostacyclin Partial Agonist: 1) Inhibition of Platelet Aggregation and Mechanism of Action", Thrombosis Research, vol. 74, no. 2, pages 115-123 1994						
	AAQ	MEANWELL et al. "Non-Prostanoid Prostacyclin Mirnelics. 6. Derivatives of 2-(3-)(2-(4,5-Diphenyl-2- Oxazolyl)Ethyl PhenoxylAcetic Acid Modified beta-to the Oxazole Ring", Drug Design and Discovery, vol. 11, pages 73-89 1994						
	AAR	"JTE-522: Antiinflammatory Cyclooxygenase-2 Inhibitor", Drugs of the Future, vol. 23, no. 6, pages 598-601 1998  TANAKA et al. "Studies on Anti-platetet Agents. V. Synthesis and Structure-Activity Relationship of 3-Substituted 5,6-Bis(4-						
	AAS	methoxyphenyl)-1,2,4-triazines", Che 1994	rm. Pharm. Bull., vol. 42, no.	9, pages 1835-18	840			
	AAT	PENNING et al. "Synthesis and Biolo Identification of 4-[5-(4-Methylphenyl Med. Chem., vol. 40, pages 1347-13 1997	)-3-(trifluoromethyl)-1H-pyraz 65	ol-1-yl]benzenes	ulfonamide (SC-5863	35, Celecoxib)*, J.		
	AAU	LAN et al. "Structure-Activity Relation vol. 42, pages 769-776 1999						
V	AAV	TAKAHASHI et al. "FR167653, a p38 Gastritis in Mongolian Gerbils", Journ 2001	Mitogen-Activated Protein F nal of Pharmacology and Exp	Gnase Inhibitor, F erimental Therap	Prevents Helicobacter Deutics, vol. 296, no.	r pylori-induced 1, pages 48-56		
Examiner		/Kristin Bianchi/			te Considered	10/09/2008		
*Evaminar: Ir	attial if r	oference is considered whether or no	t citation is in conformance w	ith MPEP 609: D	raw line through cita	tion if not in		

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Form PTO 1449	U.S. DEPARTMENT OF COMMERCE		ATTY DOCKET NO.	- March	SERIAL NO. 10/553,982		
(Modified)		PATENT AND TRADEMARK OFFICE	279414US0PC	DEMIN	10/553,982		
			APPLICANT				
LIST OF	REFER	RENCES CITED BY APPLICANT	Toru OK	AYAMA,	et al.		
			FILING DATE		GROUP		
			October 20, 2005				
		· · · · · · · · · · · · · · · · · · ·	Including Author, Title, Date, Pertinent	-			
/K.B./	AAW	vol. 243, pages 179-184 1993	of FR122047, a novel cyclooxygenase in				
	AAX	OCHI et al. "The analgesic effect pro models", European Journal of Pharm 2000	file of FR 122047, a selective cyclooxygenase-1 inhibitor, in chemical nociceptive acology, vol. 391, pages 49-54				
*KBT-3022: Platelet Antiaggregatory Cyclooxygenase Inhibitor*, Drugs of the Future, vol. 16, no. 2, pa 1991					. 16, no. 2, pages 105-107		
	AAZ	Drugs of the Future, vol. 26, no. 2, pa 2001	ge 197				
	BAA	Chem., vol. 24, pages 1507-1510 1981	Platelet Aggregation Inhibitory Activity of 4,5-Bis(anyl)-2-substituted-thiazoles", J. Med.				
	вав	TANEMOTO et al. "Clinical Study of Age) and Nonelderly Patients with Cl 900 2000	KBT-3022: Platelet Aggregation Effects a pronic Arterial Occlusion", Current Therap	nd Pharma eutic Rese	acokinetics in Elderly (>65 Years o earch, vol. 61, no. 12, pages 891-		
BAC no. 8, pages 603-610, with English							
	TANAKA et al. "Studies on Anti-platelet Agents. IV. A Series of 2-Substituted 4,5-Bis(4-methoxyphenyl)pyrimid Anti-platelet Agents", Chem. Pharm. Bull., vol. 42, no. 9, pages 1828-1834 1994						
	BAE	DANNHARDT et al. "Cyclooxygenas 109-126 2001	e inhibitors – current status and future pro	ospects", E	ur. J. Med. Chem., vol. 36, pages		
V	BAF	HAWKEY. "COX-2 Inhibitors", The Li 1999	ancet, vol. 353, pages 307-314				
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U.S. PCT Application Serial No: 10/553,982

Filed: October 20, 2005 Toru OKAYAMA, et al. Docket No. 279414US0PCT

#### STATEMENT OF RELEVANCY

- References have been cited in the International Search Report. A copy of these references is being submitted herewith.
- References have been cited in the corresponding copy of these references is being submitted herewith.
- References AC, AD, AAF-AAK are discussed in the specification. A copy of these references is being submitted herewith.
- References AA, AB, AE-AAE, AAL-BAF are additional prior art known to Applicant. A copy of these references is being submitted herewith.



Docket No.: 279414US0PCT

Serial No.: 10/553,982

Inventor: Toru OKAYAMA, et al.

LIST OF RELATED CASES CITED BY APPLICANT UNDER 37 CFR 1.56

Filing Date: October 20, 2005

Group:

## LIST OF RELATED CASES

Examiner <u>Initial</u> /K.B./	Scrial or <u>Docket No.</u> <u>Patent</u> <u>Number</u>		Filing or Issue Date	Inventor or Applicant	
	279414US0PCT*	10/553,982	10/20/05		OKAYAMA, et al.
/K.B./	275332US0PCT	10/543,915	07/29/05		KANAYA, et al.

Examiner

/Kristin Bianchi/

Date Considered

10/09/2008

<sup>\*</sup>Present Application; listed for information NFO/hab